

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<p>(51) International Patent Classification⁶ : E04D 11/02, 5/10</p>	<p>A1</p>	<p>(11) International Publication Number: WO 99/06646 (43) International Publication Date: 11 February 1999 (11.02.99)</p>
<p>(21) International Application Number: PCT/BR98/00053 (22) International Filing Date: 28 July 1998 (28.07.98) (30) Priority Data: MU 7701574-6 29 July 1997 (29.07.97) BR (71)(72) Applicant and Inventor: MARTINEZ, Celso, Jr. [BR/BR]; Avenida Dr. Carlos Botelho, 3020, CEP-13560-251 São Carlos, SP (BR).</p>		<p>(81) Designated States: CA, JP, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i></p>
<p>(54) Title: A ROOF WATERPROOFING SYSTEM CONSISTING OF AN ORGANIC RESIN PROTECTED BY AN ALUMINUM-COPOLYMER COMPOSITE FOIL</p> <div data-bbox="300 1165 1209 1386"></div> <p>(57) Abstract</p> <p>The present Utility Model, that conjugates in one system two processes that confer watertightness to exposed substrates, cimentitious or not, used on roofs of current buildings, provides larger reliability to the surfaces against the percolation of water. The said system is constituted of applying, on exposed porous or non-porous surfaces (1), mud slab regularized or not, of concrete, wood, metals, etc., besides baseboards or parapets (2), of high adherence organic resin (4), with self-leveling, viscoelastic, thermoplastic and hydrophobic properties, covered by film strips (5) of aluminum laminated with thermoplastic copolymers, welded at its overlaps (7) by thermal process, fastened in the vertical surfaces of the structures by screws/plastic washers/expansion shells groups (6), and whose flow of rain water is made by pipeline (3) in PVC or other equivalent material.</p>		

BEST AVAILABLE COPY

INTERNATIONAL SEARCH REPORT

In national Application No
PCT/BR 98/00053

A. CLASSIFICATION OF SUBJECT MATTER IPC 6 E04D11/02 E04D5/10		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 6 E04D		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	US 4 473 610 A (DAVIS) 25 September 1984 see column 1, line 45 - column 2, line 3; figures	1
A	WO 89 08135 A (SCHAUMANN) 8 September 1989 see page 3, paragraph 3 - page 4, paragraph 1; figures	1
A	US 5 096 759 A (SIMPSON ET AL.) 17 March 1992 cited in the application see column 1, line 40 - column 2, line 4 see column 3, line 1 - line 36; figures	1
A	WO 97 03258 A (GENTEK BUILDING) 30 January 1997 see page 8, line 3 - line 34; figures	1
-/--		
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents : "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "S" document member of the same patent family		
Date of the actual completion of the international search 23 November 1998		Date of mailing of the international search report 30/11/1998
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer Righetti, R

INTERNATIONAL SEARCH REPORT

In .ational Application No
PCT/BR 98/00053

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	GB 2 065 155 A (TOYO KOHAN) 24 June 1981 see page 1, line 28 - line 35 ---	1
A	FR 2 554 484 A (GENERAL ELECTRIC) 10 May 1985 see abstract; figures ---	1
A	FR 2 222 514 A (CHEM. WERKE HÜLS) 18 October 1974 see example 6 ---	1
A	GB 2 244 735 A (R. H. EMBERSON ET AL.) 11 December 1991 see abstract; figures ---	1
A	GB 2 105 256 A (COAL INDUSTRY) 23 March 1983 see abstract; figures -----	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/BR 98/00053

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 4473610 A	25-09-1984	NONE	
WO 8908135 A	08-09-1989	DE 3806480 A AU 3189089 A EP 0403510 A JP 3502939 T	14-09-1989 22-09-1989 27-12-1990 04-07-1991
US 5096759 A	17-03-1992	US 4936938 A US 5142837 A	26-06-1990 01-09-1992
WO 9703258 A	30-01-1997	US 5670244 A AU 6675396 A	23-09-1997 10-02-1997
GB 2065155 A	24-06-1900	DE 2950994 A FR 2471859 A	25-06-1981 26-06-1981
FR 2554484 A	10-05-1985	NONE	
FR 2222514 A	18-10-1900	DE 2314750 A BE 812744 A GB 1454845 A	10-10-1974 15-07-1974 03-11-1976
GB 2244735 A	11-12-1991	NONE	
GB 2105256 A	23-03-1983	NONE	